

26A7-GT

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TWIN A-F BEAM POWER AMPLIFIER

GENERAL DATA

Electrical:

Heater for Coated Unipotential Cathode:

Voltage	26.5	a-c or d-c volts
Current	0.6	amp.

Direct Interelectrode Capacitances - Each Unit (Approx.):°

Grid to Plate	1.2	μμf
Input	16	μμf
Output	13	μμf

Physical:

Mounting Position	Any
Maximum Overall Length	3-13/16"
Maximum Seated Length	3-1/4"
Maximum Diameter	1-5/16"
Bulb	T-9
Base	Intermediate Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW	8BU

Pin 1 - Grid of Unit No.1
Pin 2 - Cathode, Suppressor of Units No.1 & No.2
Pin 3 - Grid of Unit No.2
Pin 4 - Plate of Unit No.2
Pin 5 - Screen of Units No.1 & No.2
Pin 6 - Heater
Pin 7 - Heater
Pin 8 - Plate of Unit No.1

KEY

CLASS A_1 AMPLIFIER - Each Unit

Maximum Ratings, ***Design-Center Values:***

PLATE VOLTAGE	50 max.	volts
SCREEN VOLTAGE	50 max.	volts
PLATE DISSIPATION	2 max.	watts
SCREEN DISSIPATION	0.5 max.	watt
D-C HEATER-CATHODE POTENTIAL	90 max.	volts

Typical Operation:

Plate Voltage	26.5	volts
Screen Voltage	26.5	volts
Grid Voltage*	-4.5	volts
Peak A-F Grid Voltage	4.5	volts
Zero-Signal Plate Current	20	ma.
Max.-Signal Plate Current	20.5	ma.
Zero-Signal Screen Current	2	ma.
Max.-Signal Screen Current	5.5	ma.
Plate Resistance	2500 approx.	ohms
Transconductance	5500	μmhos
Load Resistance	1500	ohms
Total Harmonic Distortion	7	%
Max.-Signal Power Output	200	mw

*, °: See next page.



26A7-GT

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(continued from preceding page)

PUSH-PULL CLASS AB_1 AMPLIFIER - Both Units

Maximum Ratings, ***Design-Center Values:***

PLATE VOLTAGE	50 max.	volts
SCREEN VOLTAGE	50 max.	volts
PLATE DISSIPATION (per unit)	2 max.	watts
SCREEN DISSIPATION (per unit)	0.5 max.	watt
D-C HEATER-CATHODE POTENTIAL	90 max.	volts

Typical Operation — ***Both Units:***

Plate Voltage	26.5	volts
Screen Voltage	26.5	volts
Grid Voltage*	-7	volts
Peak A-F Grid-to-Grid Voltage	14	volts
Zero-Signal Plate Current	19	ma.
Max.-Signal Plate Current	30	ma.
Zero-Signal Screen Current	2 approx.	ma.
Max.-Signal Screen Current	8.5 approx.	ma.
Effective Load Resistance (plate-to-plate)	2500	ohms
Total Harmonic Distortion	5	%
Max.-Signal Power Output	500	mw

° With no external shield.

* Under maximum rated conditions, the d-c resistance in each grid circuit may be as high as 0.5 megohm with cathode bias and 0.1 megohm with fixed bias. When the plate voltage and the screen voltage do not exceed a maximum design value of 26.5 volts, the d-c resistance in the grid circuit may be as high as 0.5 megohm with grid-resistor bias.

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AVERAGE PLATE CHARACTERISTICS
EACH UNIT-PENTODE CONNECTION

HEATER VOLTS = SCREEN VOLTS = 26.5

CONTROL-GRID VOLTS E_{C1}=0

-1.5

-3.0

-4.5

-6.0

-7.5

-9.0

E_{C1}=0

I_b

I_b

I_{C2}

PLATE VOLTS

0 10 20 30 40 50 60

80 60 40 20 0

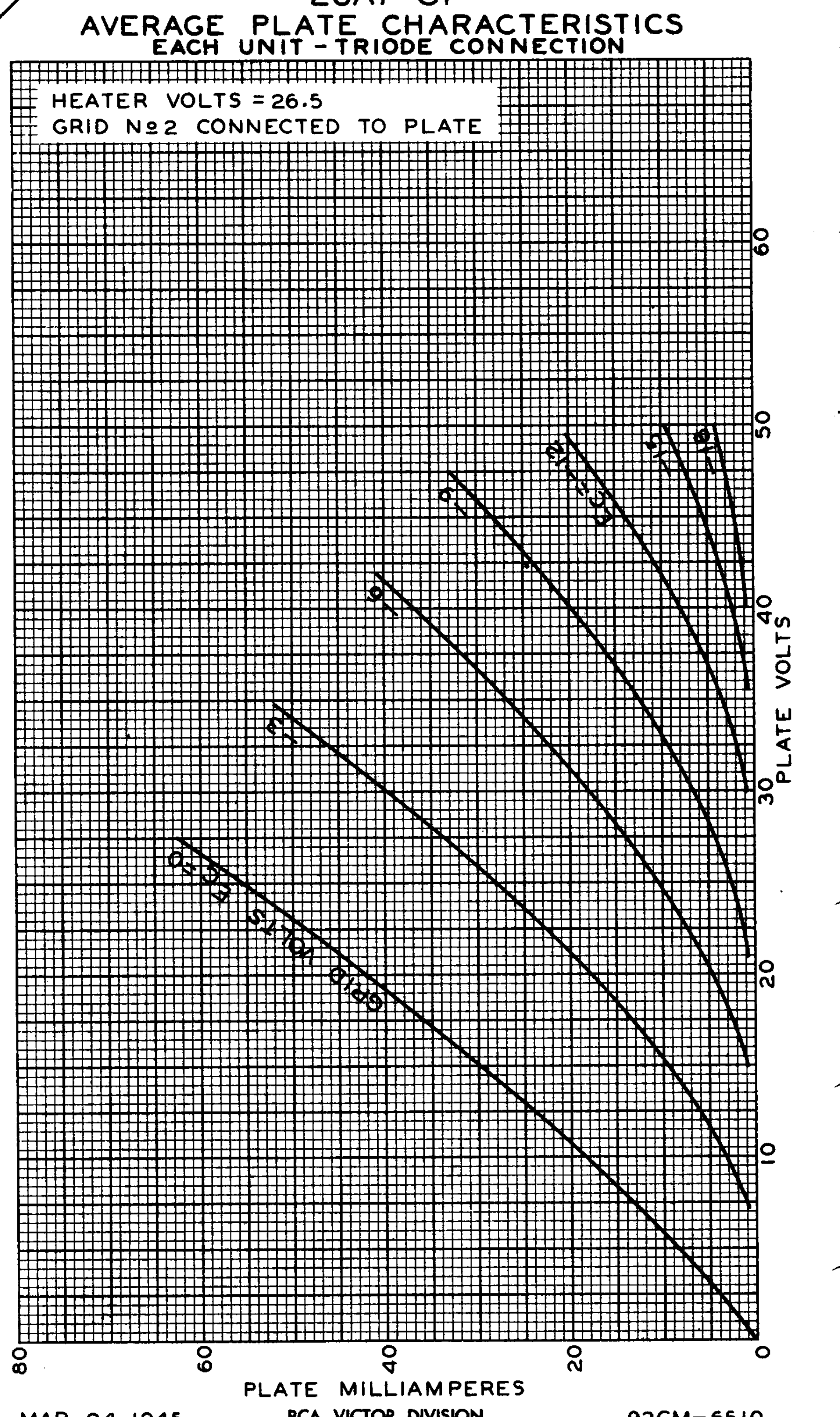
PLATE (I_b) OR SCREEN (I_{C2}) MILLIAMPERES

MAR. 23, 1945

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92CM-6509

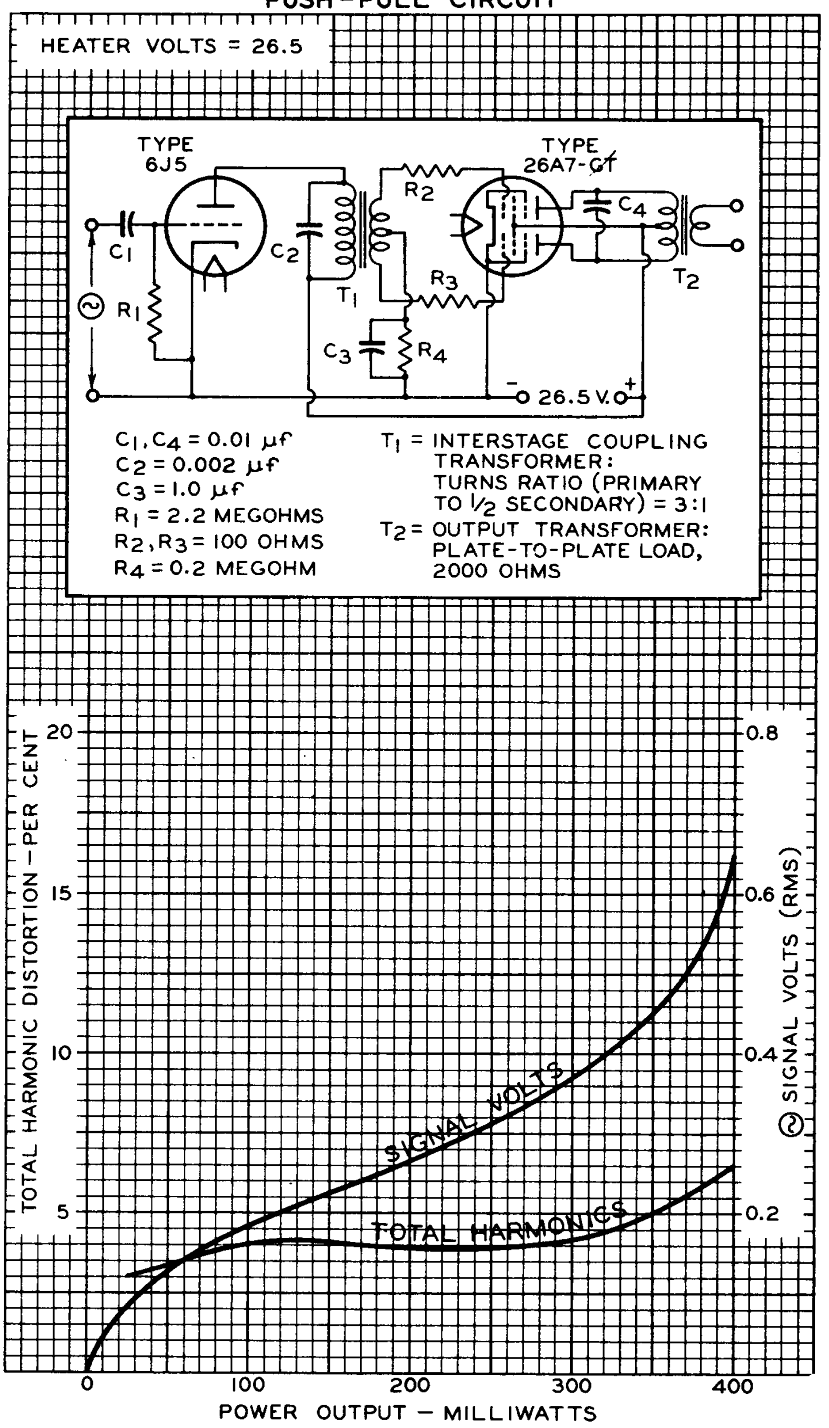


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AVERAGE PLATE CHARACTERISTICS
EACH UNIT - TRIODE CONNECTION
HEATER VOLTS = 26.5
GRID No 2 CONNECTED TO PLATE
GRID VOLTS Ec=0
-3
-6
-9
-12
-15
-18
PLATE VOLTS
0
10
20
30
40
50
60
PLATE MILLIAMPERES
80
60
40
20
0
MAR. 24, 1945
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92CM-6510



26A7-GT

OPERATION CHARACTERISTICS
PUSH-PULL CIRCUIT



MAR. 21, 1945

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92CM-6579